SHEET NO.	NAME	SECTION	I - BARRIER
B-I			
	(2002) - 3 SECTION VIEWS		
	(2002) - 5 GRADING FOR GUARDRAIL END TREATMENT, TYPE Z		
R-2 (2002)	- CHADDAN OVER CHIVERT TVDE I		
B-3 (2002)	- CHADDAN OVER CULYERTS, FIFE I		
B-4 (2001)	- CHOVED CHADDON CECTION		
B-5 (2002)			
B-6			
D 0			
B-7	- CITARDRAIL TO RAPPIER CONNECTION APPROACH TYPE I		
.	(2002) - I DIAN ELEVATION AND SECTIONS		
	(2001) - 2 WOOD RECOVERED BY WOOD RECOVER READING DEATE DEED DAIL TO	RADDIED CONNECTION DETAILS	
	(2001) - 3 RENT PLATE PUR PAIL DETAILS	SANNER CONNECTION DETAILS	
B-8	- CHARDRAIL TO BARRIER CONNECTION APPROACH TYPE 2		
50	(2002) - I PLAN FLEVATION AND SECTIONS		
	(2001) - 2 NOTES BENT RAIL DETAILS BLOCK SCHEDULE		
B-9 (2002)	- CHARDRAIL TO BARRIER CONNECTION FYIT TYPE		
B-I0 (2002)	- BRIDGE RAIL RETROFIT. TYPE I		
B-II	- BRIDGE RAIL RETROFIT, TYPE 2		
	•		
B-I2 (2001)			
B-13			
	(2004) - 3 W-BEAM TERMINAL CONNECTOR		
	(2004) - 4 THRIE BEAM DETAILS		
	(2004) - 5 THRIE BEAM STEEL POST AND OFFSET BLOCK		
	(2004) - 6 W-THRIE BEAM TRANSITION SECTION		
	(2004) - 7 WOOD BLOCK, SOIL PLATE, SHORT WOOD BREAKAWAY POST, STEEL TUBE, L	ONG WOOD BREAKAWAY POST	
	(2004) - 9 REFLECTORIZED WASHER AND BEARING PLATE DETAIL		
	(2004) - IO GUARDRAIL BOLT & RECESSED NUT		
	(2004) - II 5/8" (16) HEX BOLT, HEX NUT, & STEEL WASHER, HIGH-STRENGTH STRUCTURAL	HEX BOLT & HEX NUT	
	(2004) - 12 15/6" (24) HEX NUT & STEEL WASHER, 5/8" (16) CARRIAGE BOLT, HEX NUT, & S	TEEL WASHER	
5	(2004) - 13 GUARDRAIL MOUNTED RAIL *DETAIL ON HOLD*		
B-14	- CONCRETE SAFETY BARRIER (F SHAPE)		
	(2001) - I TYPICAL CAST IN PLACE OR SLIP FORM CONSTRUCTION		
	(2001) - 3 SLOTTED PLATE CONNECTION DETAILS		

SECTION I - BARRIER (CONT'D)

SHEET NO. NAME
B-IS — PORTABLE CONCRETE SAFETY BARRIER (F SHAPE)
(2001) - I PLAN, ELEVATION, AND SECTION VIEW *DETAIL DELETED - SEE SPECIFICATIONS* (2001) - 2 CURVE SECTION *DETAIL DELETED - SEE SPECIFICATIONS*
(2001) - 3 TAPERED END SECTION *DETAIL DELETED - SEE SPECIFICATIONS*
(2001) - 4 TYPICAL REINFORCEMENT DETAILS *DETAIL DELETED - SEE SPECIFICATIONS*
(2001) - 4 JOINT CONNECTION DETAILS *DETAIL DELETED - SEE SPECIFICATIONS*
SECTION II - CURB & GUTTER
SHEET NO. NAME
C-I (2004)— P.C.C. CURB, P.C.C. CURB & GUTTER, AND HOT-MIX CURB.
C-2 — CURB RAMPS
(200 4) - I TYPE I
(2004) - 2 TYPES 2, 3, & 4
(2004) - 3 SECTIONS FOR TYPES 2, 3, & 4
(2004) - 4 TYPE 5
C-3 (2001) — ENTRANCES
C-4 — CURB_OPENINGS
(2001) - I TYPES A, B, & C
(2001) - 2 TYPES D & E
(2001) - 3 TIFES F & G
SECTION III - DRAINAGE
SECTION III - DRAINAGE
SHEET NO. NAME
D-I — 6:I SAFETY END STRUCTURE
(2001) - I DETAIL VIEWS
(2001) - 2 SCHEDULES
D-2 — IO: SAFETY END STRUCTURE
(2001) - I DETAIL VIEWS
(2001) - 2 SCHEDULES
D-3 (2001) — SAFETY END STRUCTURE GRATE D-4 (2002)— INLET BOX DETAILS
D-4 (2002)— INLET BOX DETAILS
(2002) - I DRAINAGE INLET ASSEMBLY
(2002) - 2 DRAINAGE INLET FRAME AND GRATES
(2004) - 3 DRAINAGE INLET TOP UNITS
(2002) - 4 Drainage inlet cover slab details
(2002) - 5 DOUBLE INLET COVER SLAB DETAILS
(2004) - 6 DRAINAGE INLET 34" (865) x 24" (610) DETAILS
(2002) - 7 DRAINAGE INLET 34" (865) x 18" (455) DETAILS
(2002) - 8 LAWN INLET DETAIL

INDEX OF SHEETS (2004)

SECTION III - DRAINAGE (CONT'D)

SHEET NO), NAME			
D-6	- MANHOLE DETAILS			
(2001) - I BOX MANHOLE ASSEMBLY			
	2001) - 2 ROUND MANHOLE ASSEMBLY			
	2001) - 3 MANHOLE FRAME AND COVER			
	2002) - 4 BOX MANHOLE COVER SLAB			
	— JUNCTION BOX DETAILS			
19	2002) - I JUNCTION BOX ASSEMBLY			
D_0 (2001)	2002) - 2 JUNCTION BOX COVER SLAB			
D-0 (2001)	- PIPE BEDDING			
D-3 (2004) — PERFORATED PIPE UNDERDRAIN			
		SECTION 1	V - EROSION	
SHEET NO	•			
	- INCREMENTAL STABILIZATION			
E-2 (2001)	- SILT FENCE			
E-3 (2001)	- DRAINAGE INLET SEDIMENT CONTROL			
E-4 (2001)	- CURB INLET SEDIMENT CONTROL			
	- STONE CHECK DAM			
E-6 (2001)	— SEDIMENT TRAP			
E-7 (2001)	- SEDIMENT TRAP, USING DRAINAGE INLET AS OUTLET.			
E-8	- RISER PIPE ASSEMBLY FOR SEDIMENT TRAP			
(2001) - I ELEVATION			
(2001) - 2 TRASH HOOD DETAILS			
E-9 (2001)	— EROSION CONTROL BLANKET APPLICATIONS			
E-10 (2001) — RIPRAP DITCH			
E-II (2001)				
) — PERIMETER DIKE/SWALE			
E-13 (2001)) — EARTH DIKE			
E-14 (2001)) — TEMPORARY SLOPE DRAIN			
E-15 (2001)) — STILLING WELL			
E-16 (2001)) — SUMP PIT, TYPE 1& 2			
E-17 (2001)) — DEWATERING BASIN			
E-18 (2001)) — GEOTEXTILE-LINED CHANNEL DIVERSION			
) — SANDBAG DIVERSION			
	II) — SANDBAG DIKE			
) — STABILIZED CONSTRUCTION ENTRANCE			
E-22 (200	D — SKIMMER DEWATERING DEVICE			
E-23				
(2001) - I FLOATING TURBIDITY CURTAIN			
(2001) - 2 STAKED TURBIDITY CURTAIN			
E-24 (200	I) — PORTABLE SEDIMENT TANK			
E-25 (200)	i) — TURF REINFORCEMENT MAT APPLICATIONS			

INDEX OF SHEETS (2004)

SECTION V - MISCELLANEOUS

SHEET NO. NAME	
M-I (2001) — RIGHT-OF-WAY FENCE	
M-3 (2004) — REMOVABLE BOLLARD.	
M-5 (2004) — WOOD RAIL FENCE	
M-6 (2004) — PATTERNED HOT-MIX	OR CONCRETE & BRICK PAVER

SECTION VI - PAVEMENT

SHEET NO	D. NAME
P-I	— P.C.C. PAVEMENT
	(2001) - I SLAB PLAN (WITH DOWEL AND TIE LOCATIONS)
	(2004) - 2 JOINT AND SEALANT DETAILS
	(2001) - 3 W BOLT, HOOK BOLT, DOWEL & TIE BAR
	(2001) - 4 DOWEL SUPPORT BASKET
	(2001) - 5 DOWEL & TIE BAR PLACEMENT TOLERANCES
P-2	— P.C.C. PAVEMENT PATCHING
	(2001) - I FULL DEPTH PATCH, PLAN VIEW
	(2004) - 2 FULL DEPTH PATCH, SECTION VIEWS
	(2004) - 3 FULL DEPTH PATCH, SEALANT DETAILS, GROUT RETENTION DISK, AND DOWEL BAR
	(2001) - 4 FULL DEPTH PATCH, DOWEL BAR PLACEMENT TOLERANCES
	(2001) - 5 PARTIAL DEPTH PATCH, PLAN AND SECTION VIEWS

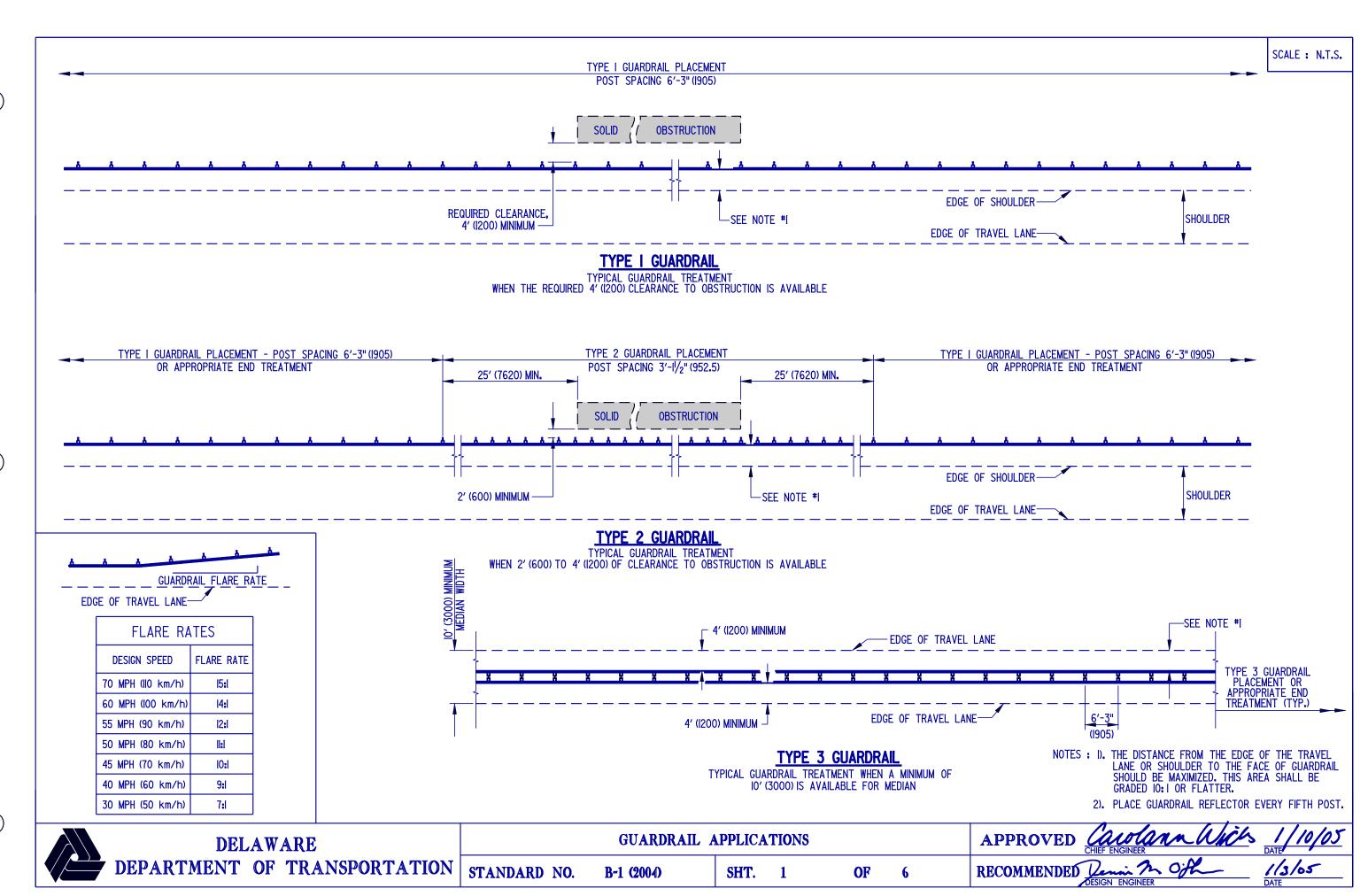
SECTION VII - TRAFFIC

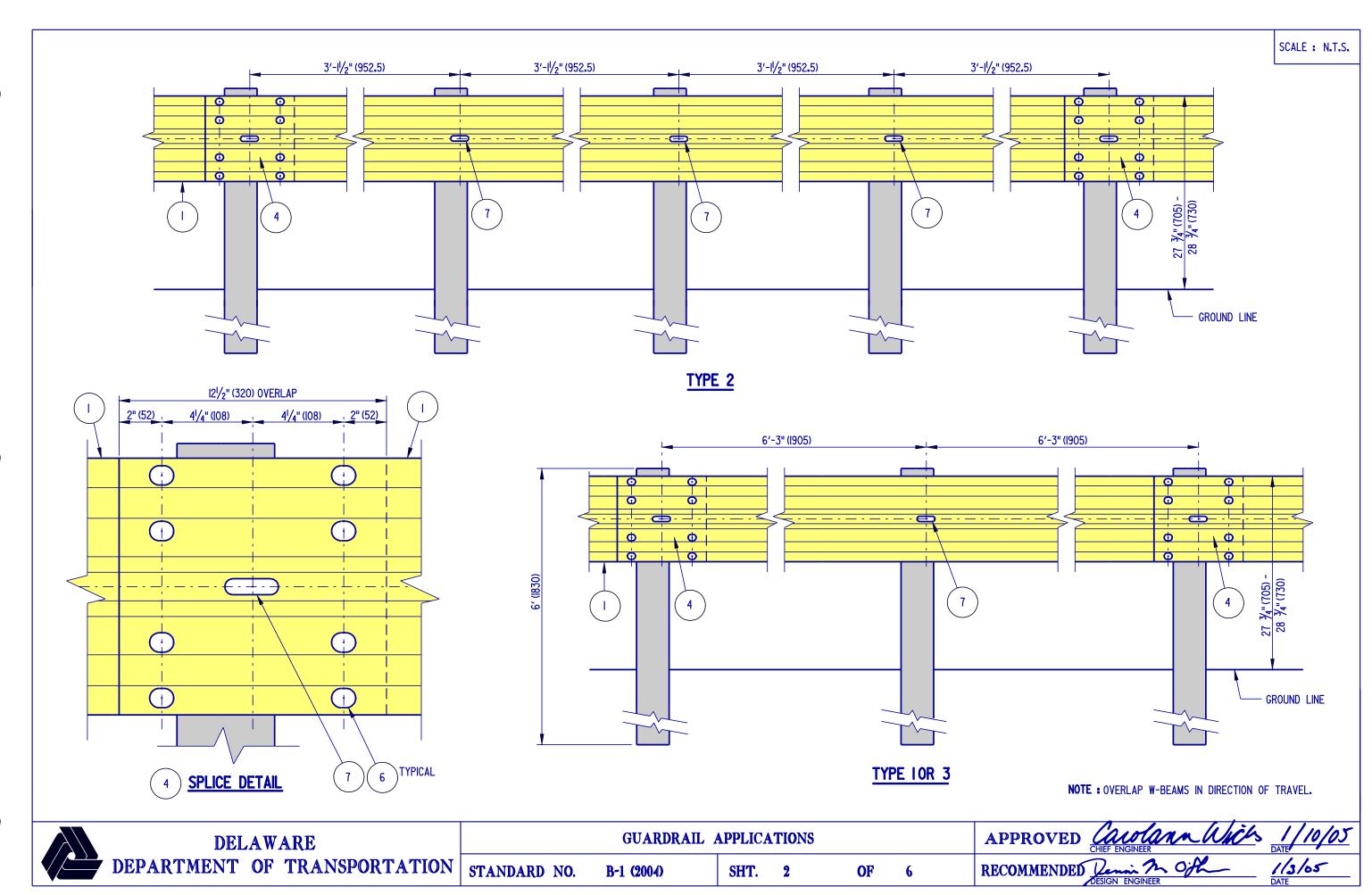
SHEET NO. NAME
T-I (2002) — CONDUIT JUNCTION WELL, TYPES I,2, AND 3
T-2 (2002) — CONDUIT JUNCTION WELL, TYPE 4
T-3 (2002) — CONDUIT JUNCTION WELL, TYPE 5
T-4 (2004) — CABINET BASES (TYPES "M" AND "P")
T-5 — POLE BASES
(2002) - I ROUND BASE, SQUARE BASE
(2002) - 2 TYPICAL SECTION (BASES 1, 2, 2A, 2B, 3, 3A, 3B, AND 7), TYPICAL SECTION (BASE 4), TYPICAL INSTALLATION (BASES 1, 2, 2A, 2B, 3, 3A, 3B, 4, AND 7)
(2002) - 3 TYPICAL SECTION (BASES 5 AND 6), ANCHOR BOLT DATA CHART AND DETAILS
T-6 (2002) — SPECIAL POLE BASE
T-7 (2002) — SIGN FOUNDATION
T-8 (2002) — LOOP DETECTOR TO CONDUIT JUNCTION WELL CONNECTION
T-9 (2004) — TYPE *I LOOP DETECTOR
T-IO (2004) — TYPE *2 LOOP DETECTOR

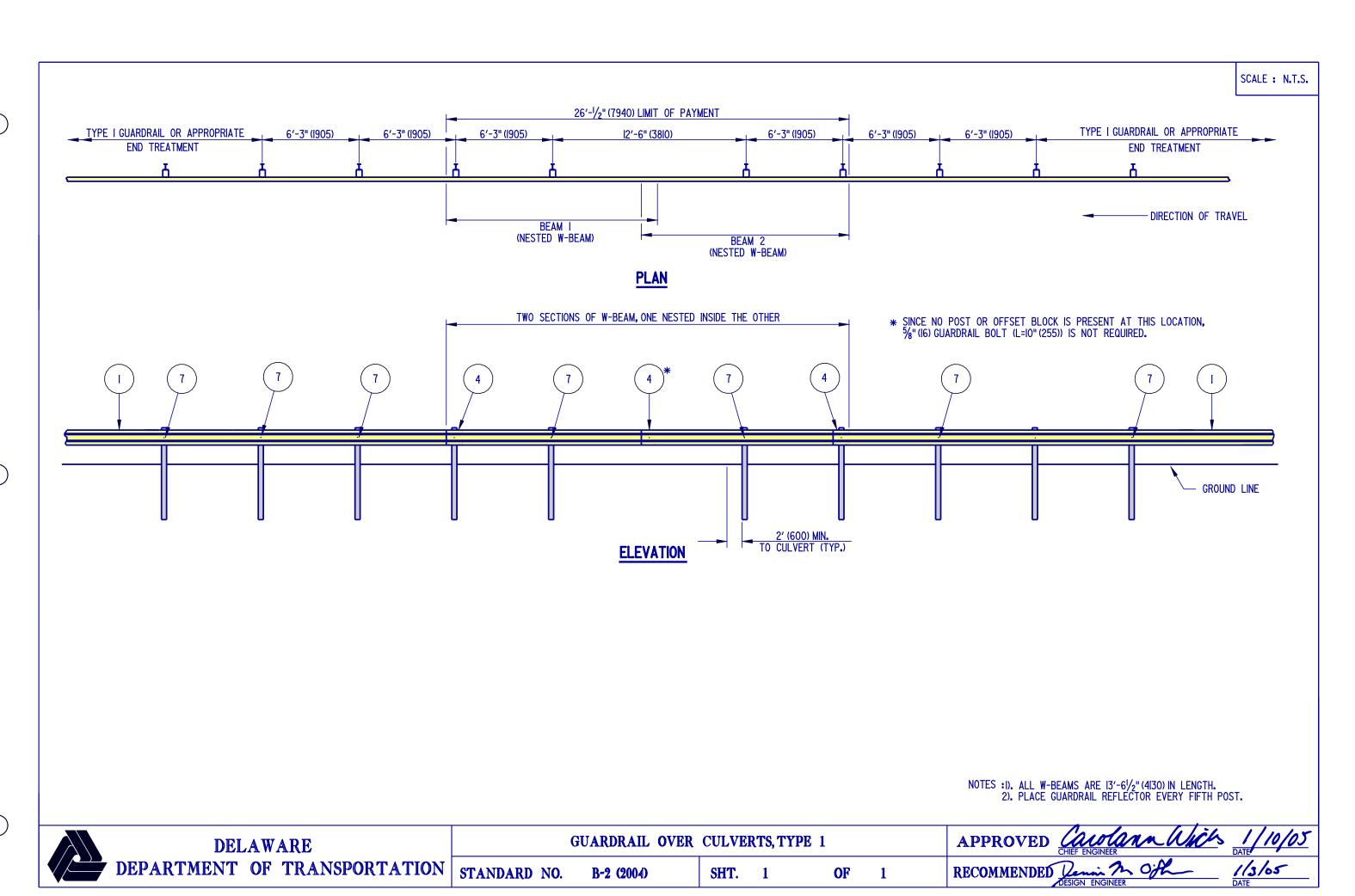


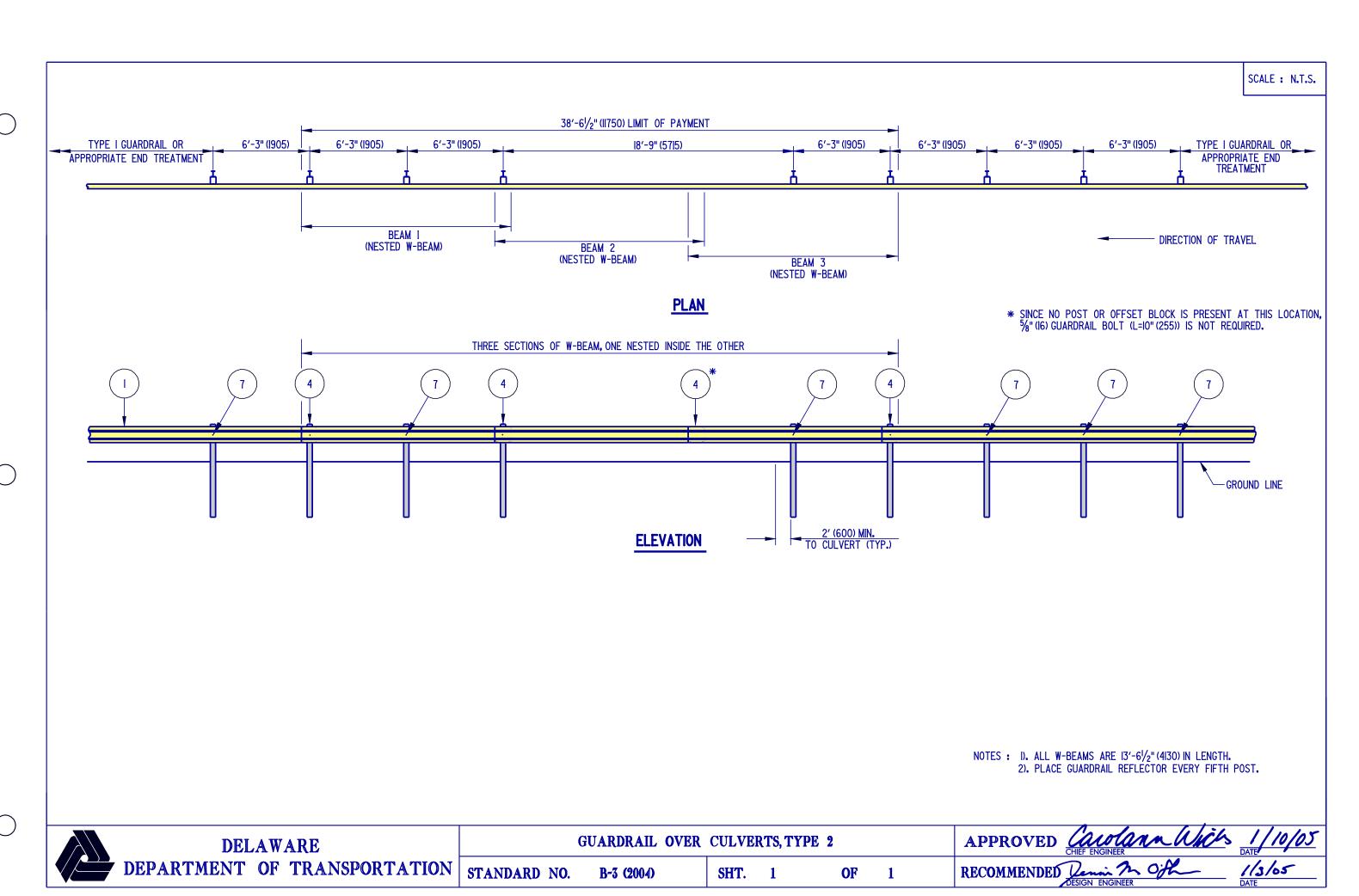
SECTION VII - TRAFFIC (CONT'D)

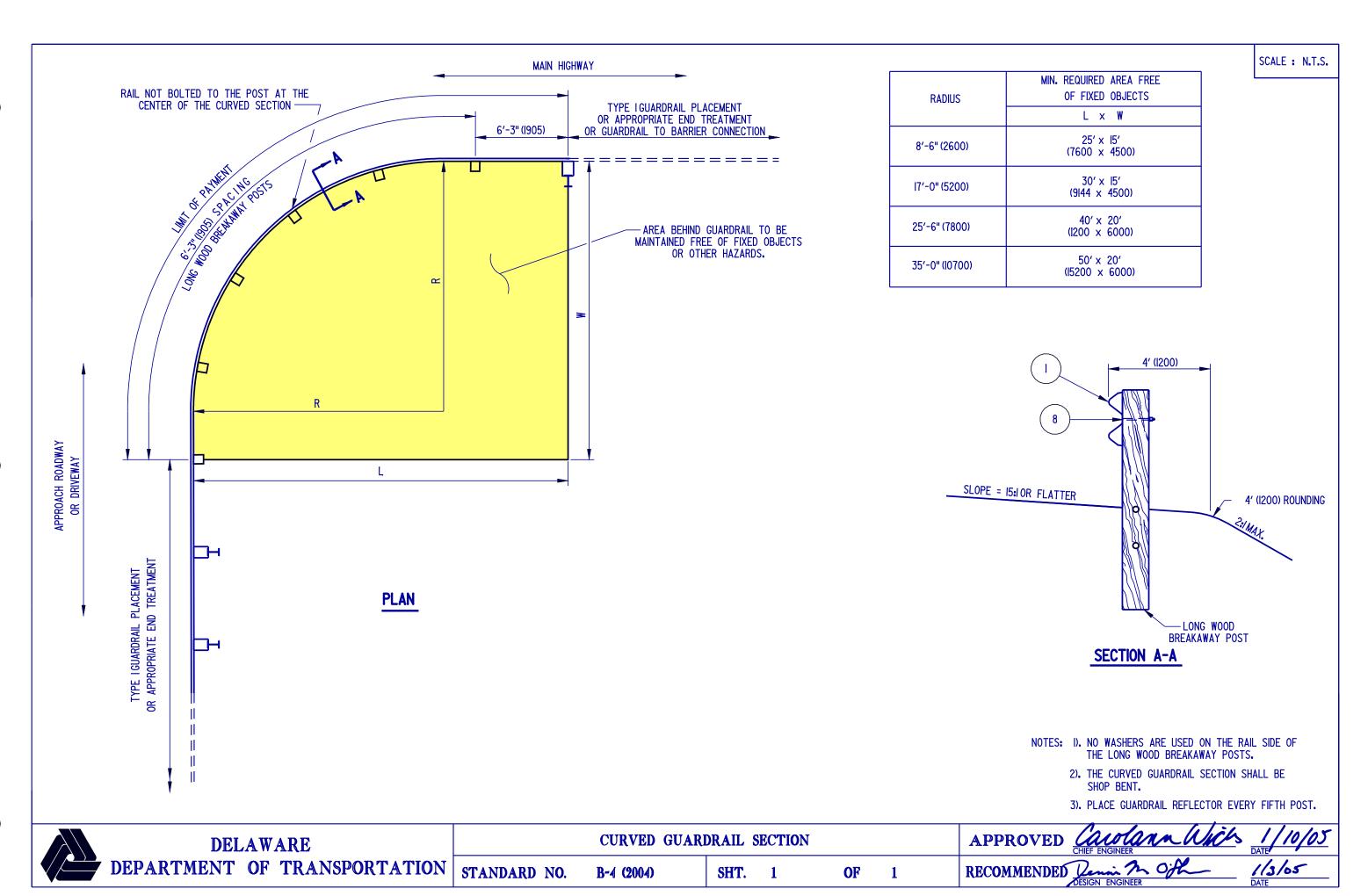
SHEET	NO.	NAME	
T-II	-	MESSENGER	WIRE ATTACHMENT
	(2004	4) - I INTERME	DIATE MESSENGER WIRE ATTACHMENT ON WOOD POLES
			R INTERMEDIATE MESSENGER WIRE ATTACHMENT
T-I2	-	MESSENGER	WIRE ATTACHMENT
	(2004	4) - I SPAN WI	RE ATTACHMENT BETWEEN POLES
			ND MESSENGER WIRE ATTACHMENT
T-13			NCTION WELLS
	(2004	4) - 2 TYPE 7	
			3 & 10
T-14			PREEMPTION RECEIVER
			MOUNT
	(2004	4) - 2 INVERTE	D MOUNT

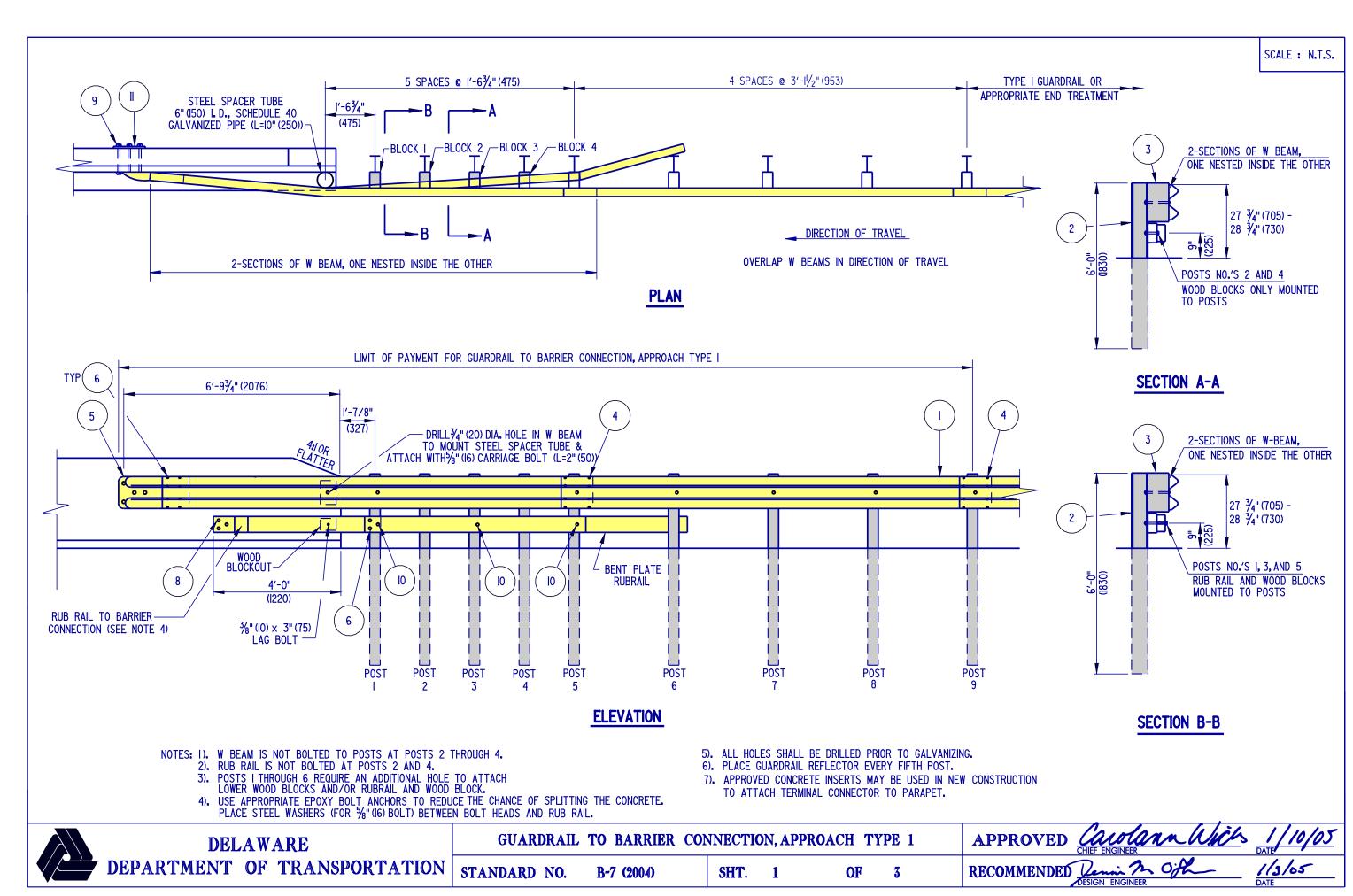


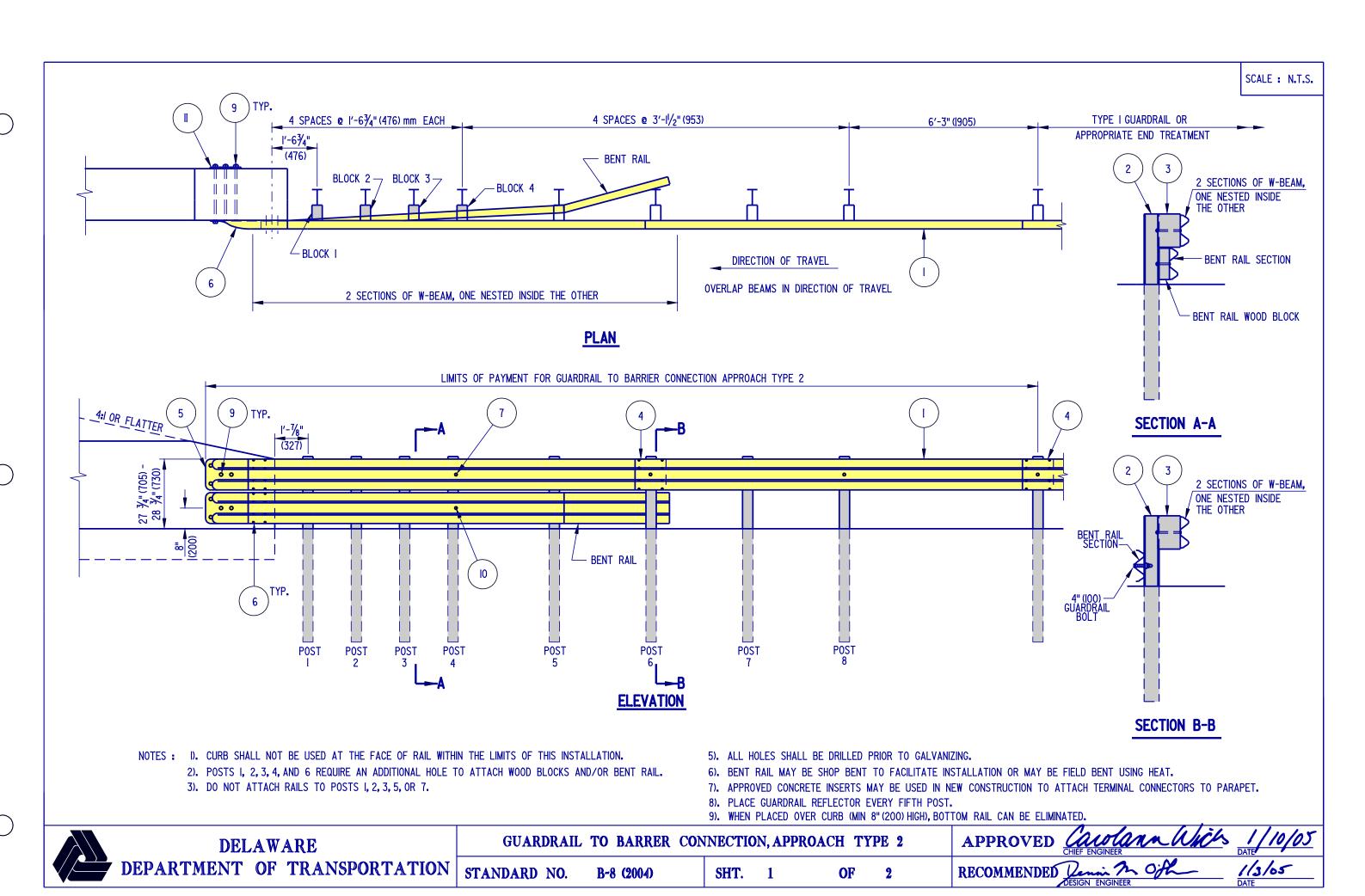


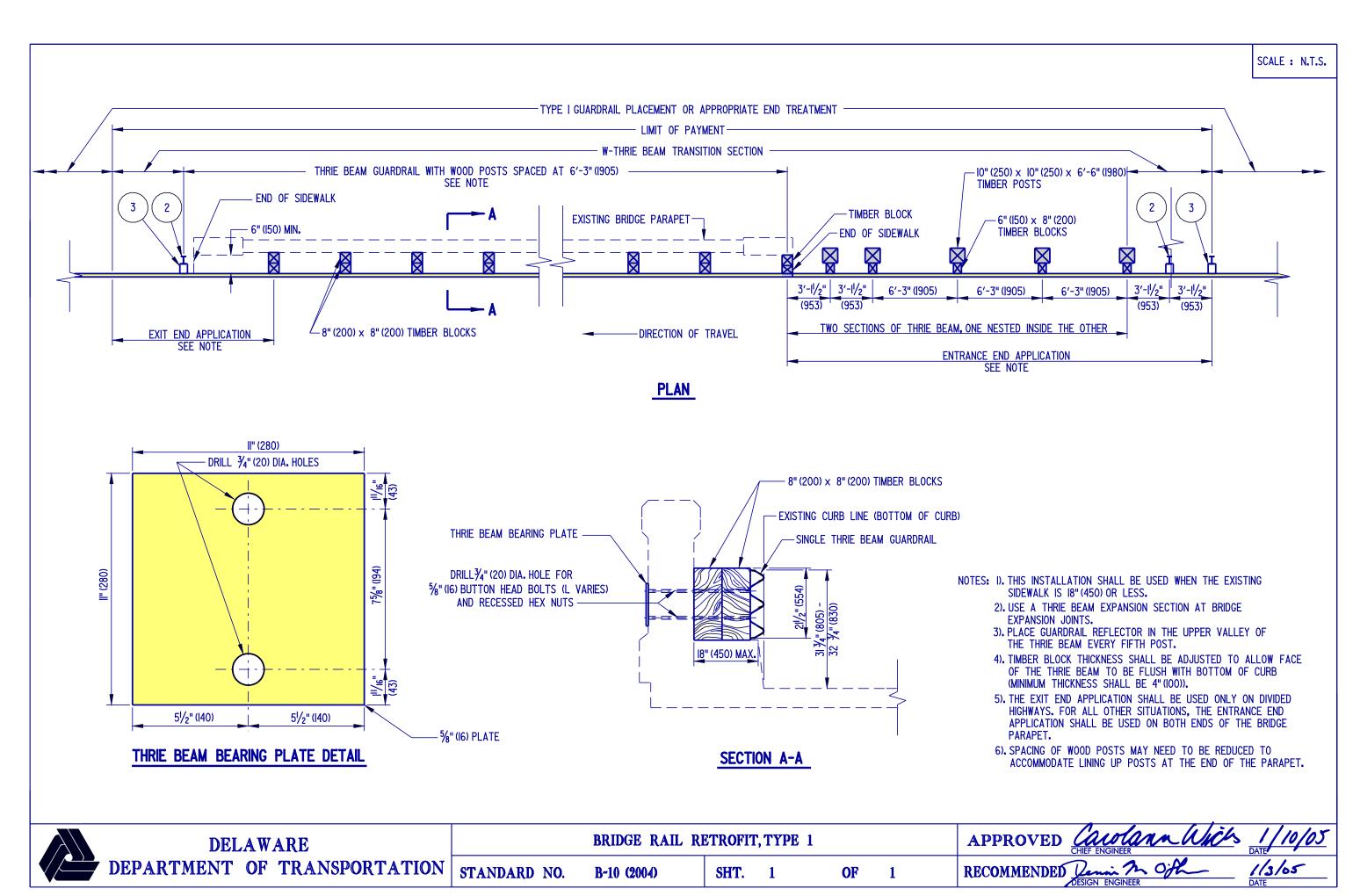


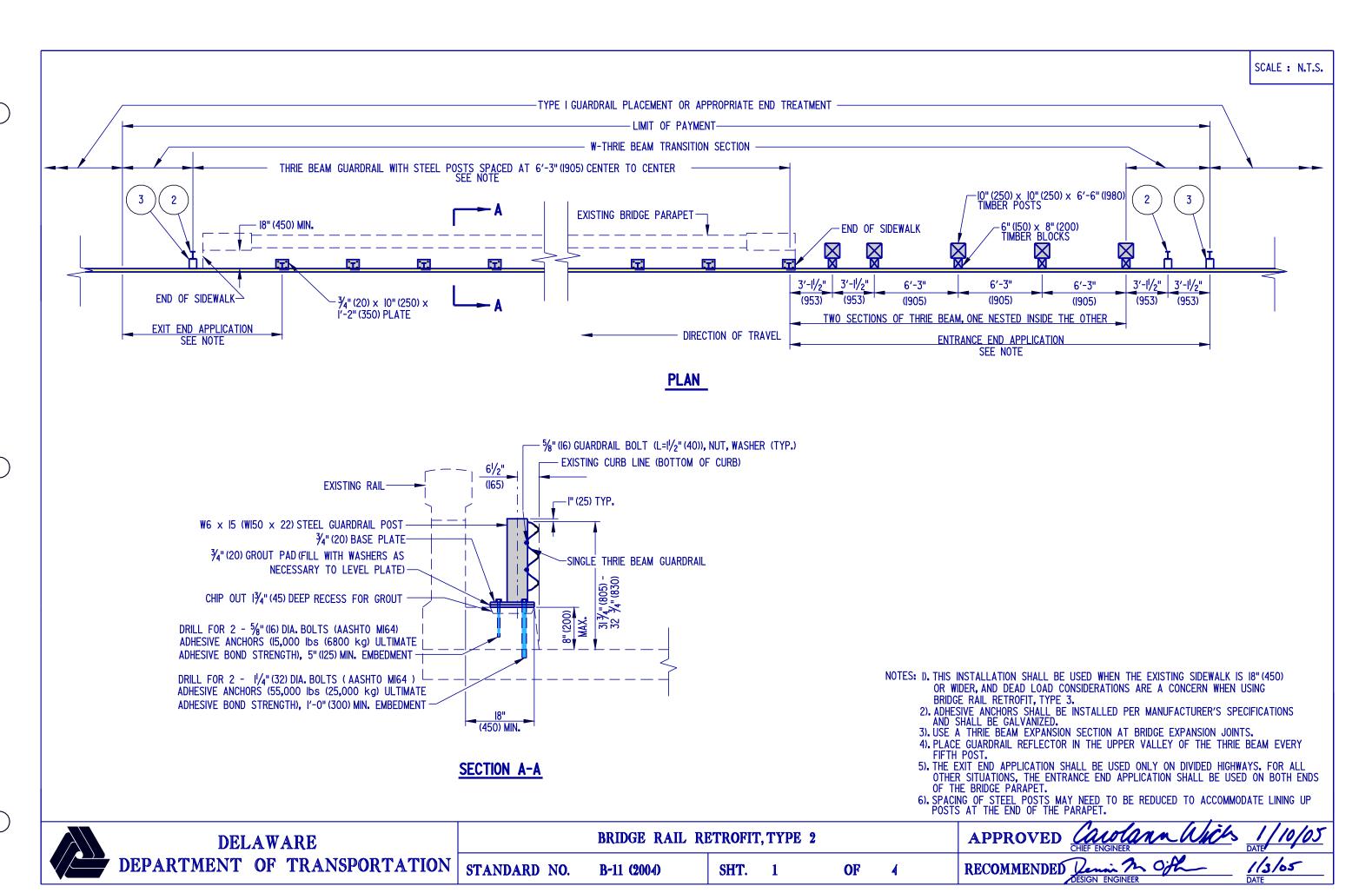




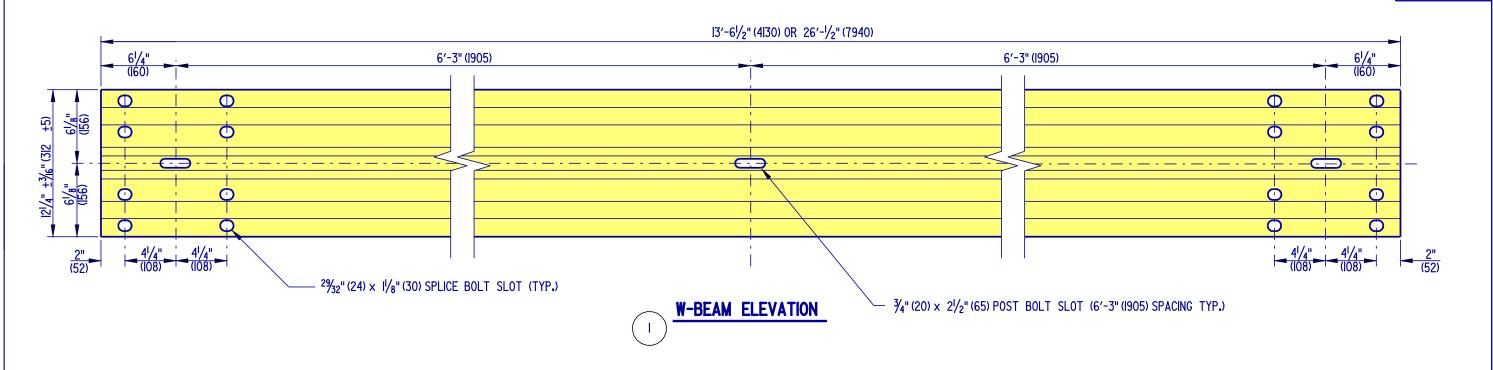


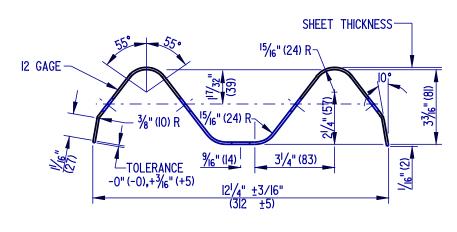










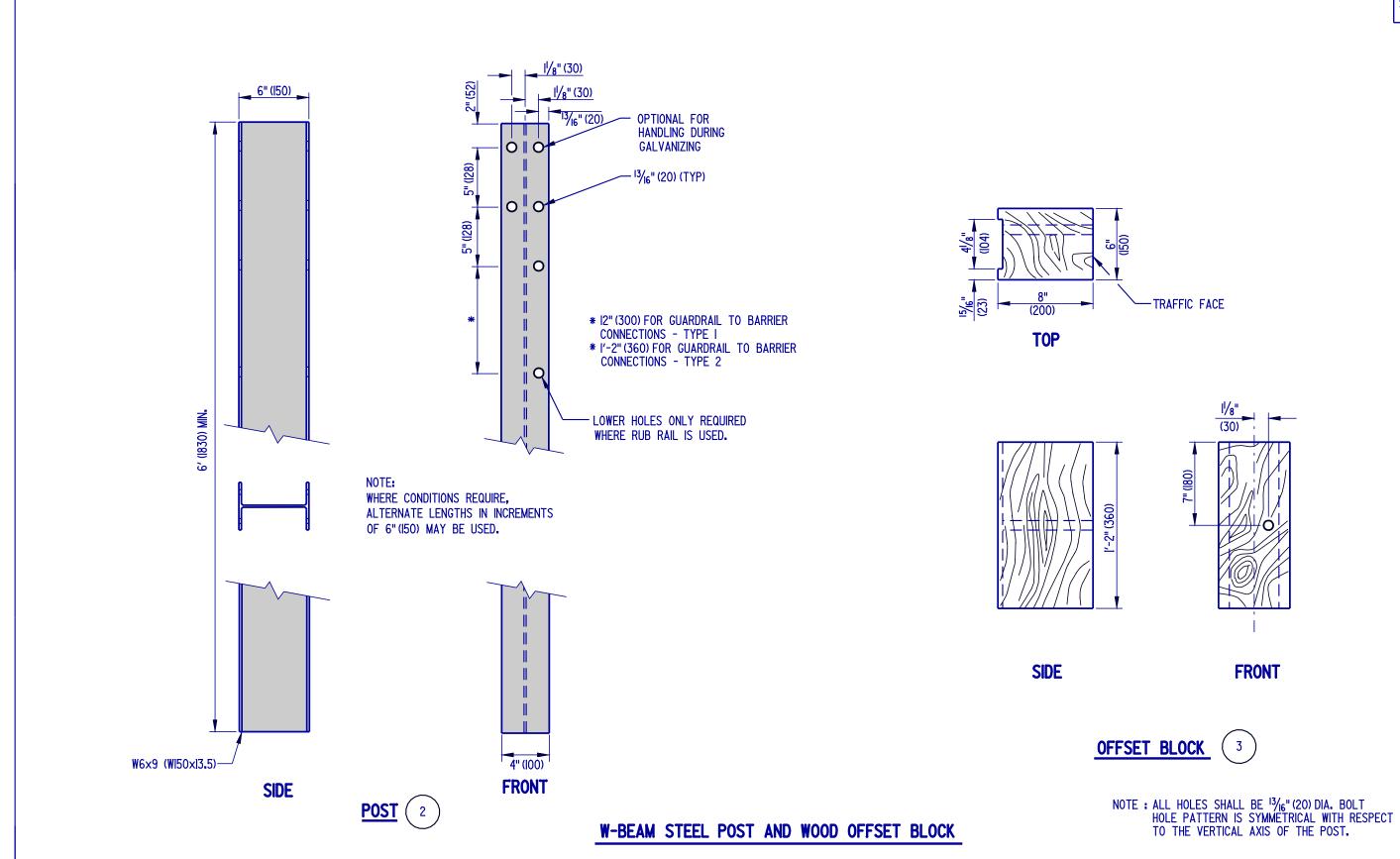


W-BEAM SECTION

NOTES: I). TWO ADDITIONAL $\frac{3}{4}$ " (20) x $2\frac{1}{2}$ " (65) SLOTS SHALL BE PROVIDED AT 6'-3" (1905) SPACING FOR BEAM LENGTH OF $26^{\prime}-\frac{1}{2}$ " (7940).

DELAWARE		HARI	WARE				APPROVED CHIEF ENGINEER D	1/10/05 DATE
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-13 (2004)	SHT.	1	OF	13	RECOMMENDED Denis & Officer	//3/65 DATE





HARDWARE

B-13 (2004)

SHT.

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OF

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STANDARD NO.

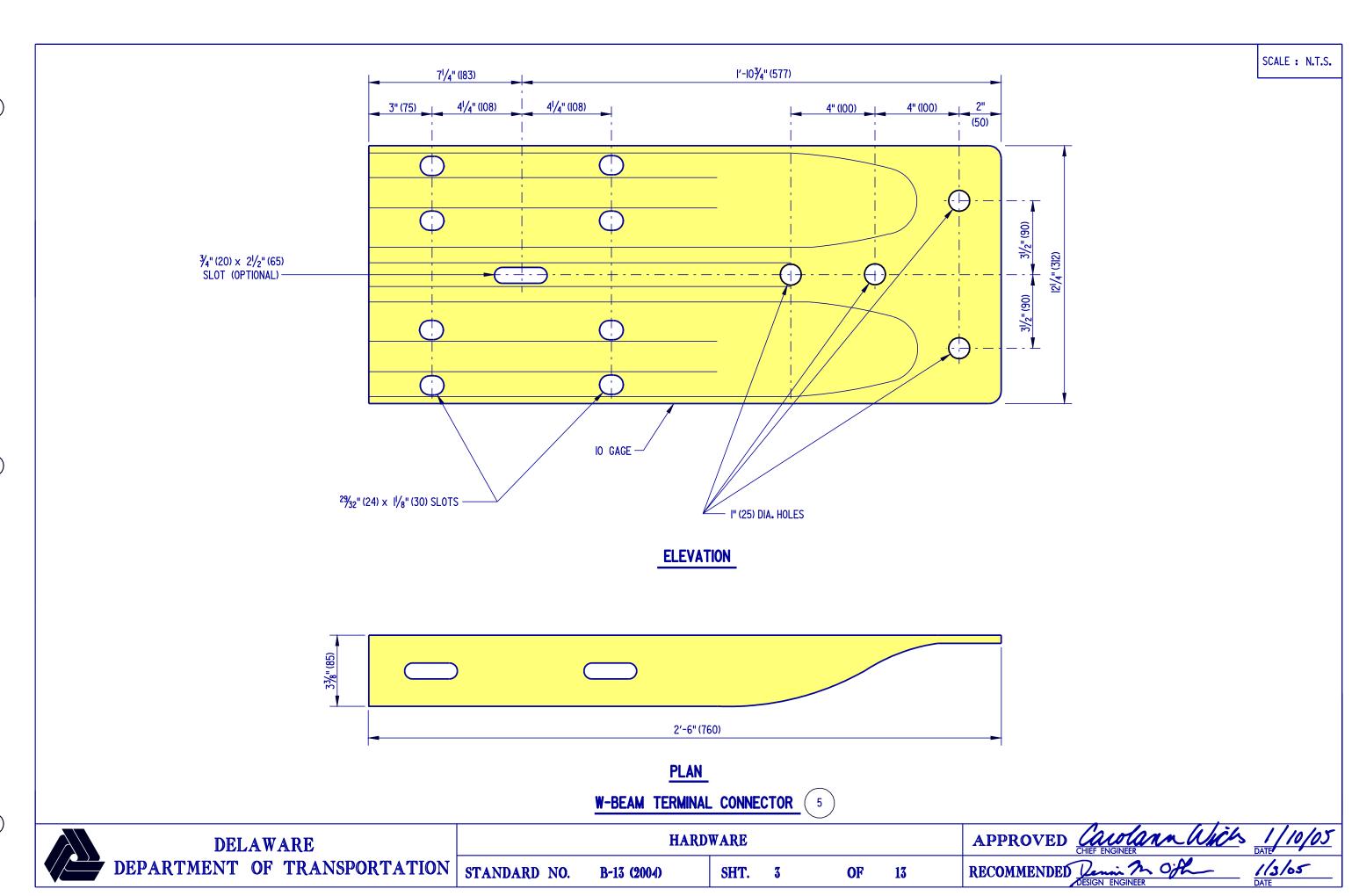
DELAWARE

DEPARTMENT OF TRANSPORTATION

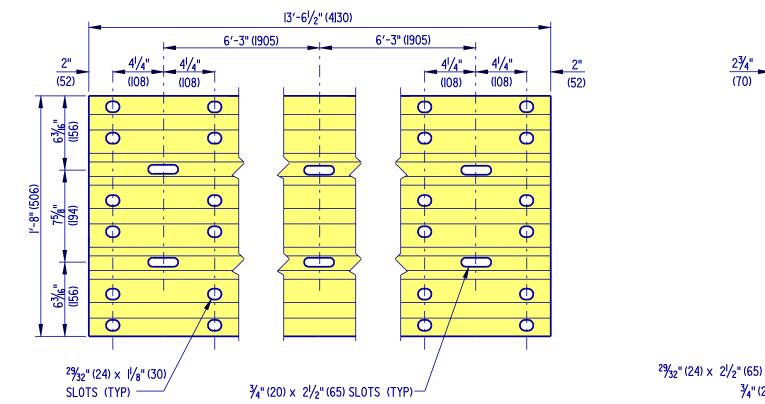
1/3/65 DATE

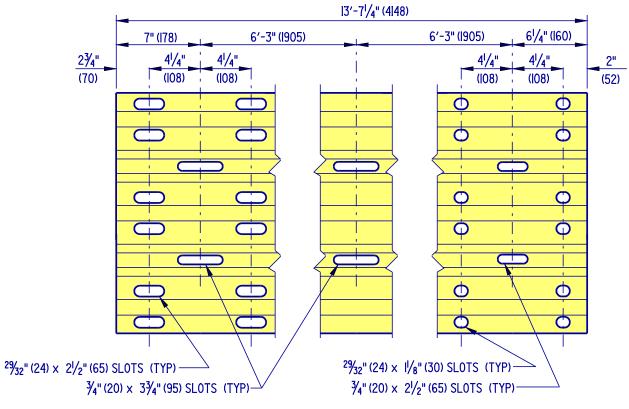
APPROVED

RECOMMENDED



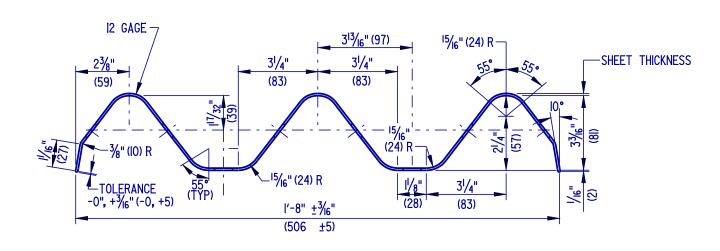






THRIE BEAM ELEVATION

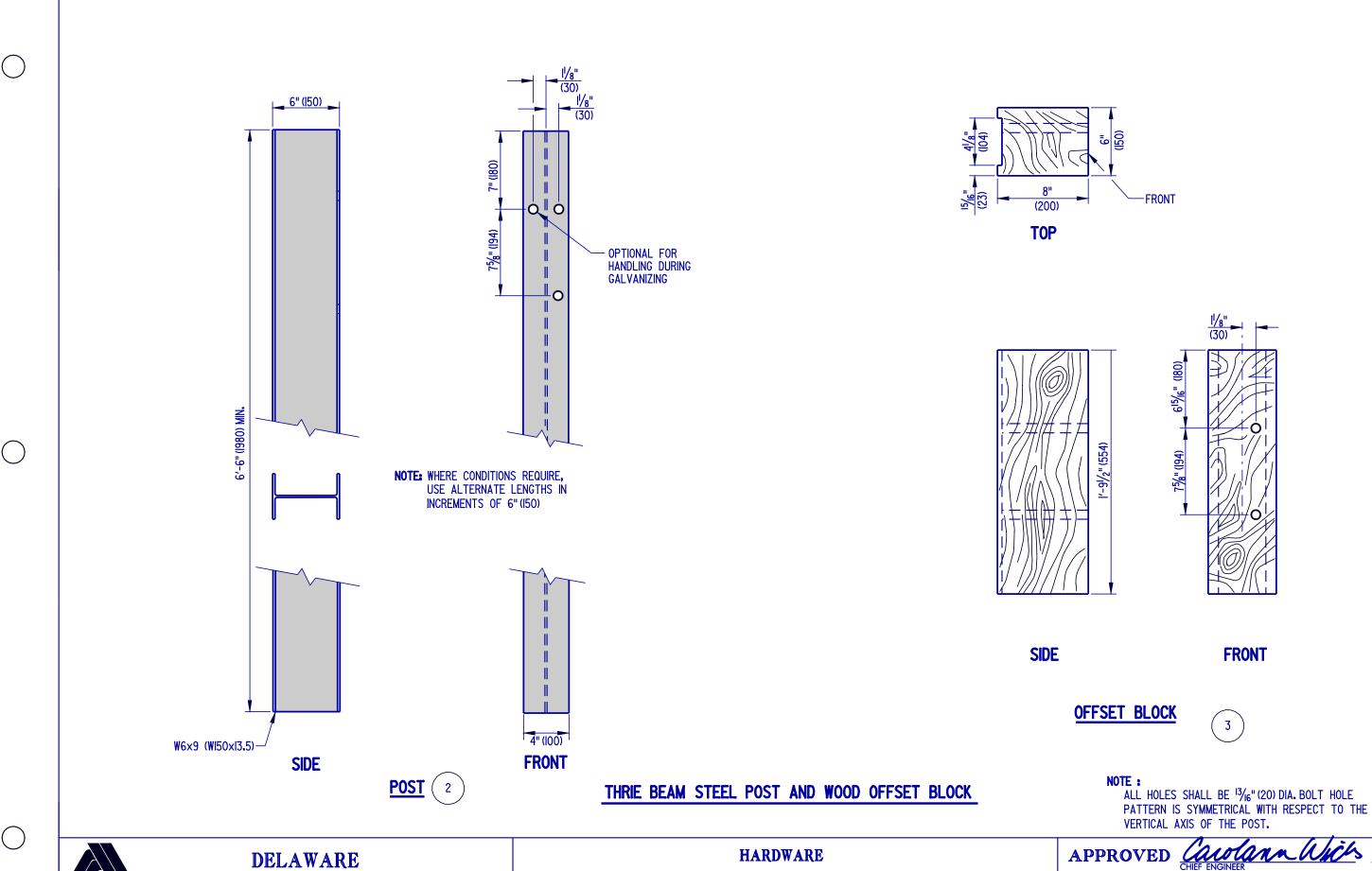
THRIE BEAM EXPANSION ELEMENT



THRIE BEAM SECTION







B-13 (2004)

SHT.

5

OF

13

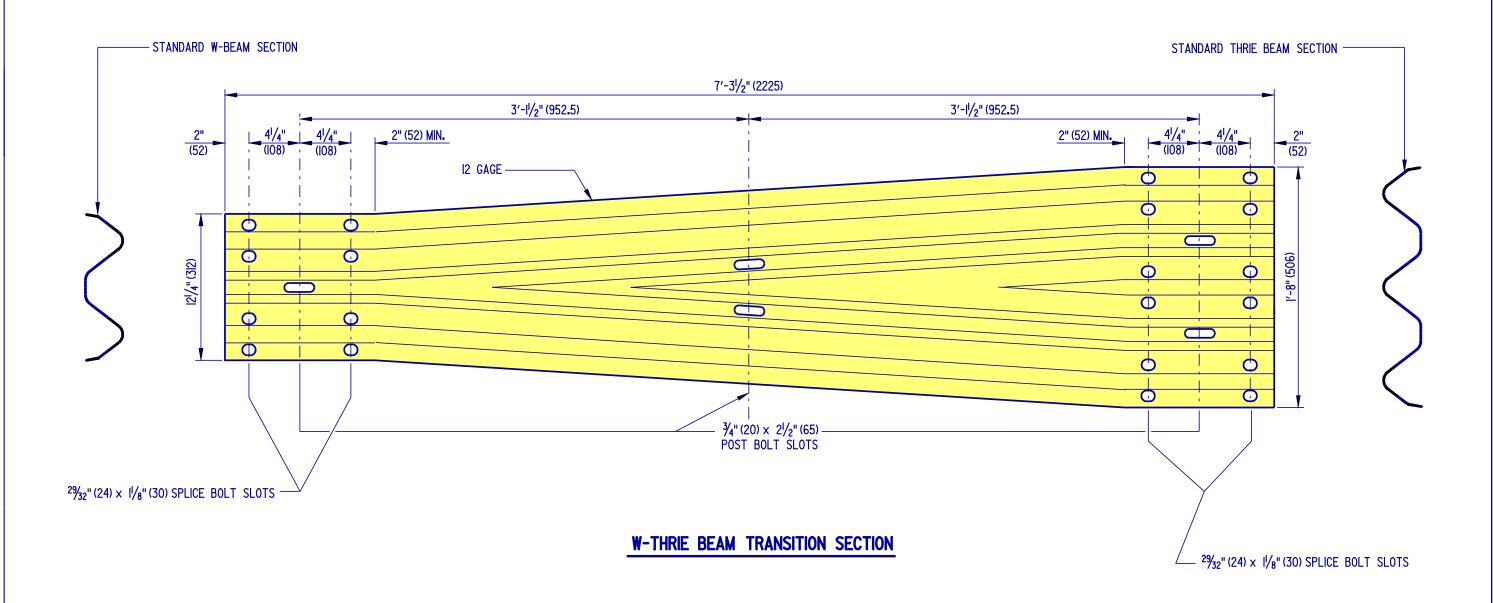
RECOMMENDED

STANDARD NO.

DEPARTMENT OF TRANSPORTATION

//3/65 DATE





DELAWARE		HARD	WARE				APPROVED CALORANA UICAS DA	1/10/05 ATE/10/05
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-13 (2004)	SHT.	6	OF	13	RECOMMENDED DESIGN ENGINEER DA	1/3/05 ATE

OF

13

RECOMMENDED

DEPARTMENT OF TRANSPORTATION

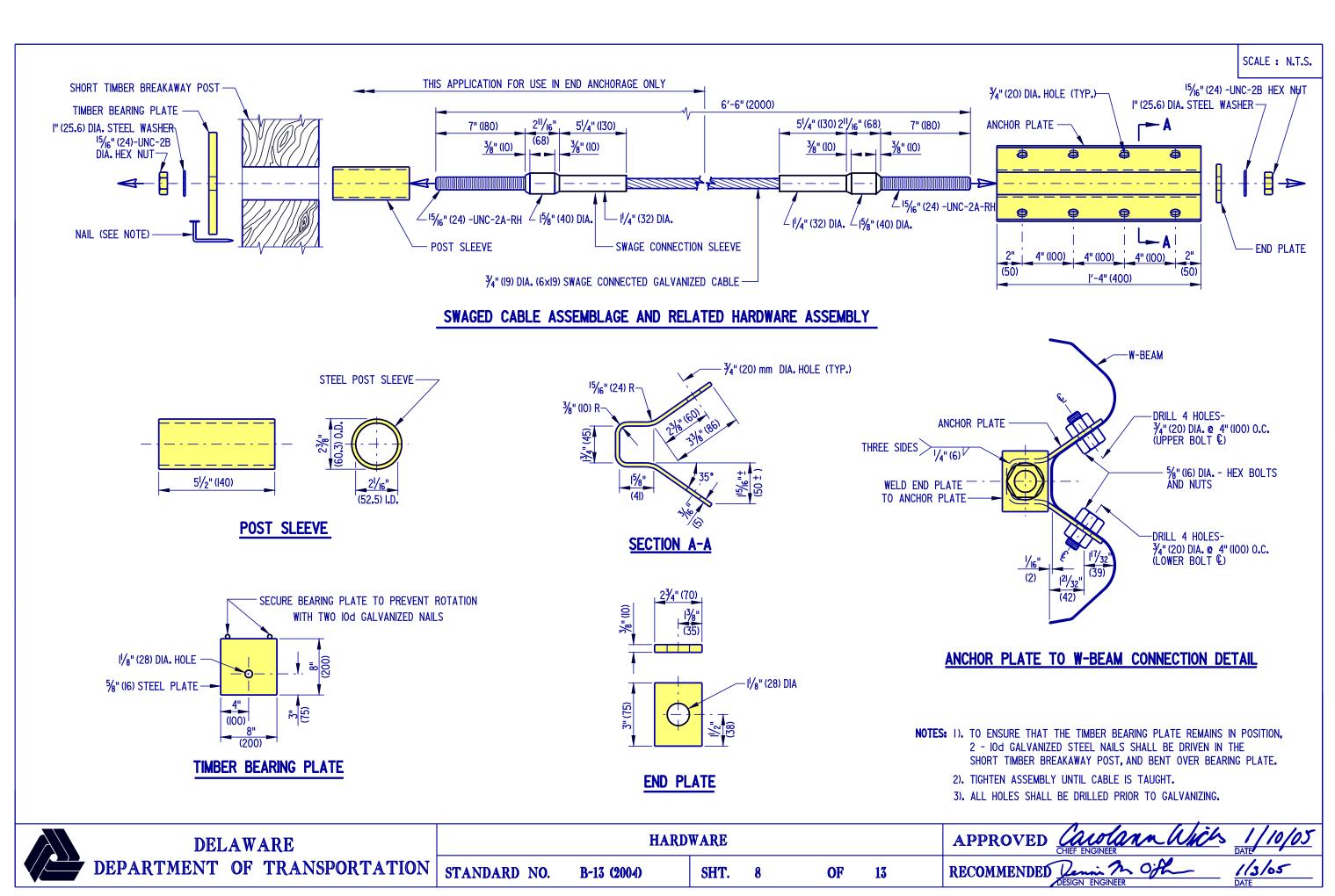
STANDARD NO.

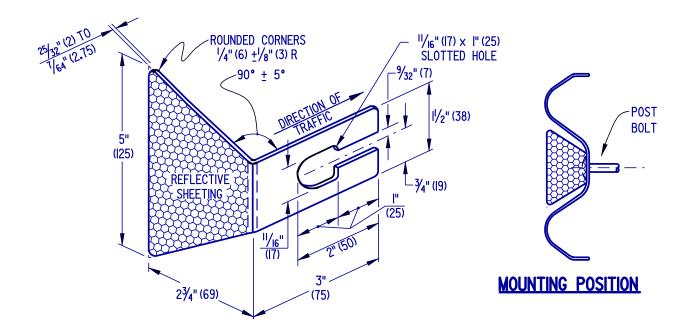
B-13 (2004)

SHT.

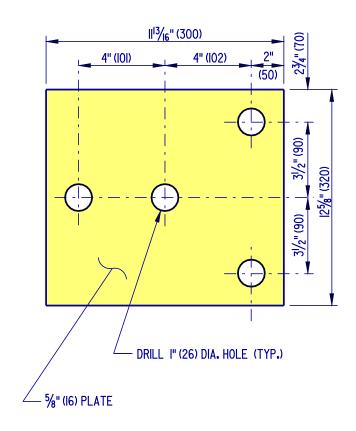
7

//3/65 DATE



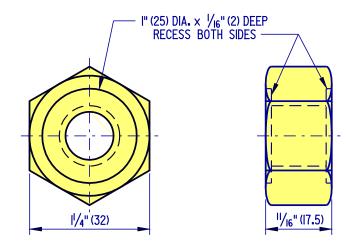


GUARDRAIL REFLECTOR

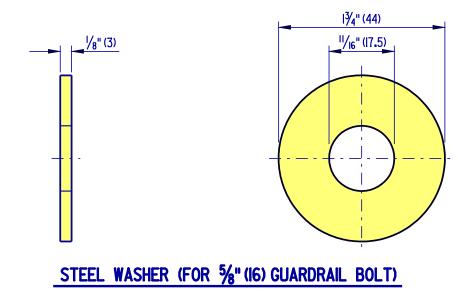


BEARING PLATE DETAIL

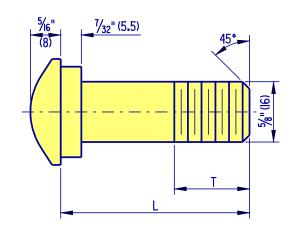
DELAWARE		HARD	WARE				APPROVED CALOLAN WICH 1/10/05 CHIEF ENGINEER
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-13 (2004)	SHT.	9	OF	13	RECOMMENDED Denis & Off 1/3/65 DESIGN ENGINEER DATE

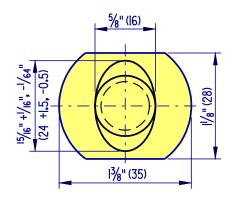


RECESSED NUT
(FOR%" (16) GUARDRAIL BOLT)



NOTE: DIMENSION FOR WASHER THICKNESS IS APPROXIMATE BASED ON METAL THICKNESS.





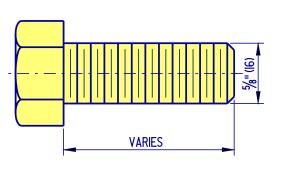
L	T (MIN.)
I ^I /4" (35)	FULL THREAD LENGTH
2" (50)	FULL THREAD LENGTH
4" (100)	FULL THREAD LENGTH
10" (255)	4" (100) THREAD LENGTH
18" (460)	4" (100) THREAD LENGTH

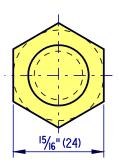
GUARDRAIL BOLT

NOTES : I. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/6" (2). 2. IF THE BOLT EXTENDS MORE THAN 1/2" (12) BEYOND THE NUT, THE BOLT SHALL BE TRIMMED BACK AS PER THE DEPARTMENT'S SPECIFICATIONS.

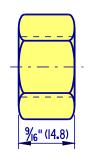
	DELAWARE	HARDWARE					APPROVED CANOLANA VICAS 1/10/05 CHIEF ENGINEER	
	DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-13 (2004)	SHT.	10	OF	13	RECOMMENDED DESIGN ENGINEER DATE

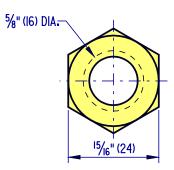




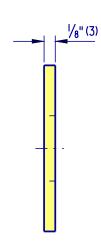


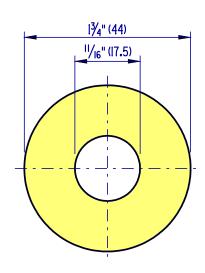
5/8" (16) HEX BOLT





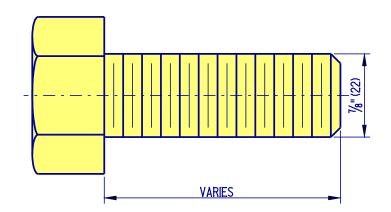
5/8" (16) HEX NUT

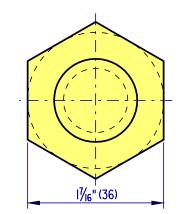




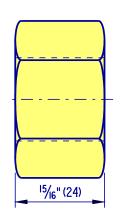
%" (16) STEEL WASHER

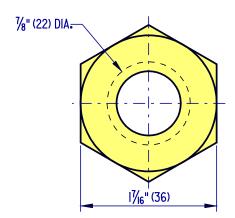
NOTE: DIMENSION FOR WASHER THICKNESS IS APPROXIMATE BASE METAL THICKNESS.



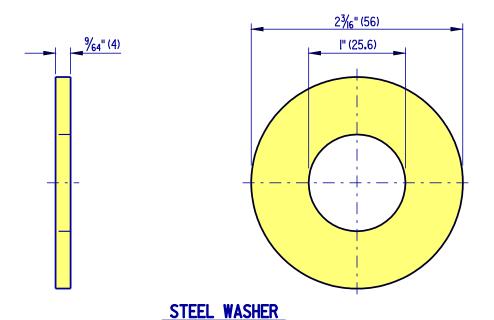


HIGH-STRENGTH STRUCTURAL HEX BOLT

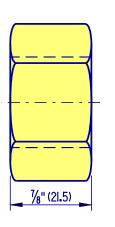


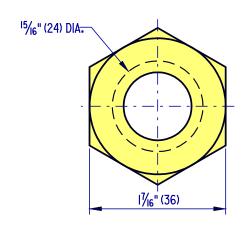


HIGH-STRENGTH STRUCTURAL HEX NUT



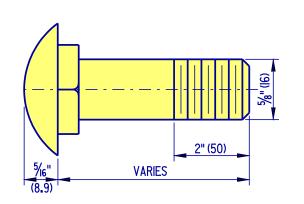
NOTES: I. FOR USE WITH SWAGED CABLE ASSEMBLAGE.
2. DIMENSION FOR WASHER THICKNESS IS
APPROXIMATE BASE METAL THICKNESS.

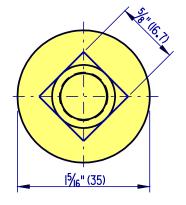




15/16" (24) HEX NUT

NOTE: FOR USE WITH SWAGED CABLE ASSEMBLAGE.





5/8" (16) CARRIAGE BOLT

		DELAWARE		
		DEPARTMENT	OF	TRANSPORTATION

STANDARD NO.

HARDWARE B-13 (2004)

12 SHT.

OF

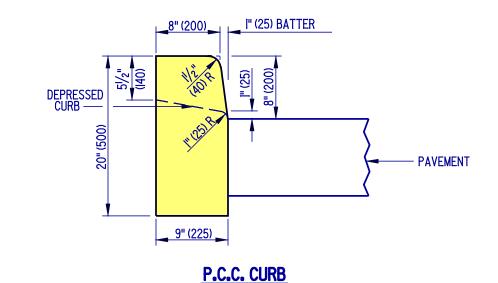
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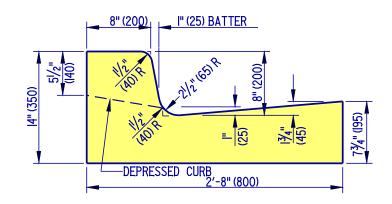
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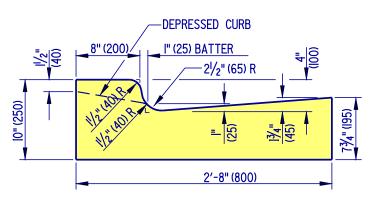
RECOMMENDED

//3/65 DATE



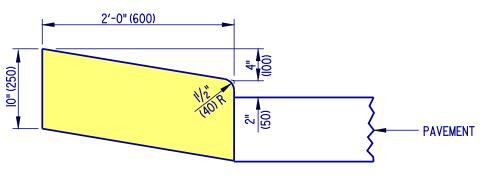




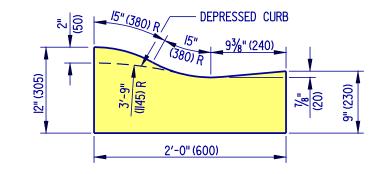


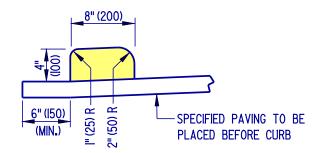
INTEGRAL P.C.C. CURB AND GUTTER TYPE I

INTEGRAL P.C.C. CURB AND GUTTER
TYPE 4



TYPE I

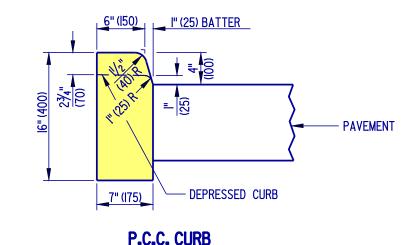


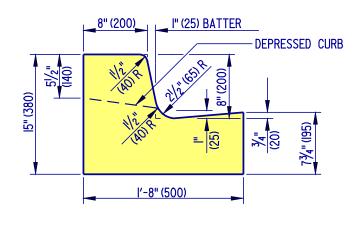


P.C.C. CURB

INTEGRAL P.C.C. CURB AND GUTTER
TYPE 2

HOT-MIX, HOT LAID BITUMINOUS CONCRETE CURB





INTEGRAL P.C.C. CURB AND GUTTER

NOTES:

- I. WHEN INTEGRAL P.C.C. CURB AND GUTTER IS PLACED ADJACENT TO PORTLAND CEMENT CONCRETE PAVEMENT, CONSTRUCT THE JOINT AS PER THE LONGITUDINAL JOINT SEALANT DETAIL ON STANDARD P-2, SHEET 3 OF 5. USE APPROVED JOINT FILLER TO SEAL. WORK TO BE PAID UNDER RESPECTIVE CURB AND GUTTER ITEM.
- 2. DEPRESS CURB AT DRIVEWAYS AS DETAILED.
- 3. DEPRESS CURB FLUSH WITH PAVEMENT AT CURB RAMPS. MAXIMUM SLOPE OF DEPRESSED CURB IS 12:1.

